

## ZsProSensor-1

|                    |                       |
|--------------------|-----------------------|
| <b>ZsGreen1 wt</b> | <b>MODC (410-461)</b> |
|--------------------|-----------------------|

FIG. 1B

atggccaggtccaagcacggcctgaccaaggagatgacatgaagtaccgcatggagggtgcgtggatggccaaa  
gttcgtgatcaccggcgagggcctggctacccttcaagggcaagcaggccatcaacctgtgcgtggaggggcg  
cccttgccttcgccgaggacatcttgcgcgcgccttcaactacggcaaccgcgtgttcaccgagtaccccgaggacat  
cgtcgactacttcaagaactctgccccgcgggtacacctgggaaccgtccttctgttcgaggacggcgccgtgtgcat  
ctgcaacgccgacatcaccgtgagcgtggaggagaactgcatgtaccacgagtccaagtctacggcggtgaactcccc  
gccgacgggccccgtgatgaagaagtacggacaactggggagccctcctgcgagaagatcatccccgtgcccaagca  
gggcatttgaagggcgacgtgagcatgtacctgctgtgaaggacgggtggccgcttgcgtgccagttcgacaccgtgt  
acaaggccaagtccgtgccccgaagatgcccgactggcacttcaccgcacaagctgaccgcgaggaccgcagcg  
acgccaagaaccagaagtggcaactgaccgagcagccatgcctccggctccgcttgcgcccgcggtacggccaa  
tgtggcaactcatgaaacagatccagagccatggcttcccccgagggtggaggagcaggatgatggcacgtgccca  
tgtcttgtgccaggagagcgggatggaccptcaccctgcagcctgtgtcttctgtaggatcaatgtg

## REPLACEMENT SHEET

### FIG. 2A

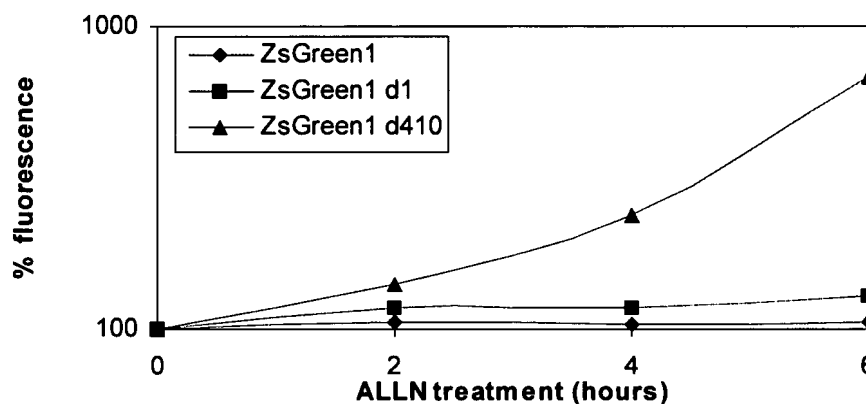
**Targeting of ZsGreen to degradation by the proteasome using motif from MODC.**

Flow Cytometry. Mean Fluorescence Intensities (MFI) of HEK 293 cells transiently transfected with plasmids encoding ZsGreen, ZsGreend1 and ZsGreend410. Standard deviations from duplicates.



### FIG. 2B

Flow Cytometry. Same as 1A. Cells were treated for 0 to 6 hours with 10 ug/ml ALLN.



## REPLACEMENT SHEET

FIG. 3A

**Generation of stable cell clone expressing ZsGreend410 to monitor the activity of the proteasome in a HTS fashion.**

Flow Cytometry. MFI of a stable clone of HEK 293 transfected with a plasmid encoding ZsGreend410. Cells treated for 6 hours with or without 10 ug/ml ALLN. Standard deviations from duplicates.

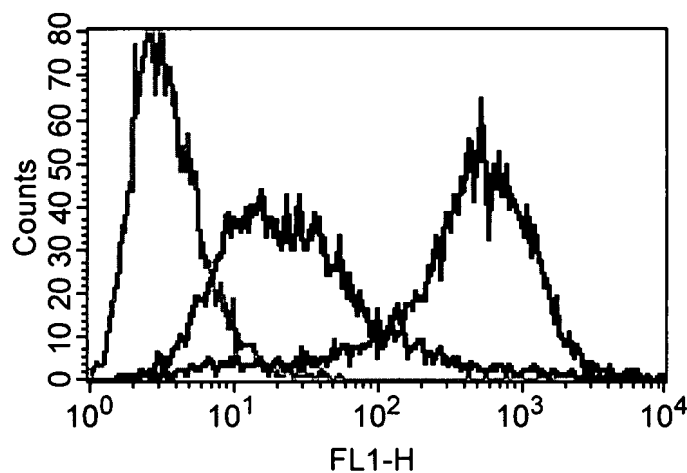


FIG. 3B

Microscopy. Micrographs of a stable clone of HEK 293 transfected with a plasmid encoding ZsGreend410. Cells treated for 10 hours with 10 ug/ml ALLN. Micrographs taken with same exposure times.

# REPLACEMENT SHEET

FIG. 3C

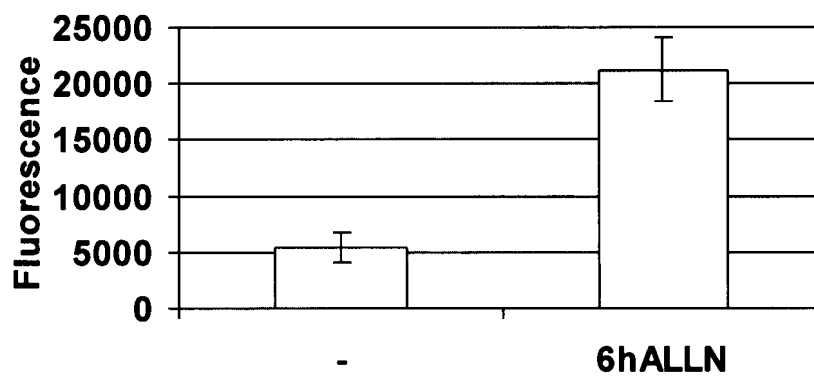


FIG. 4

(same as 2B with the stable clone)

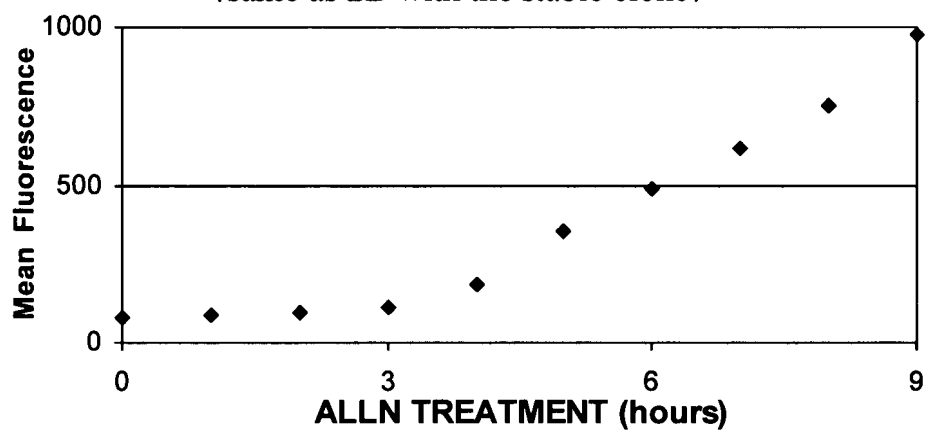
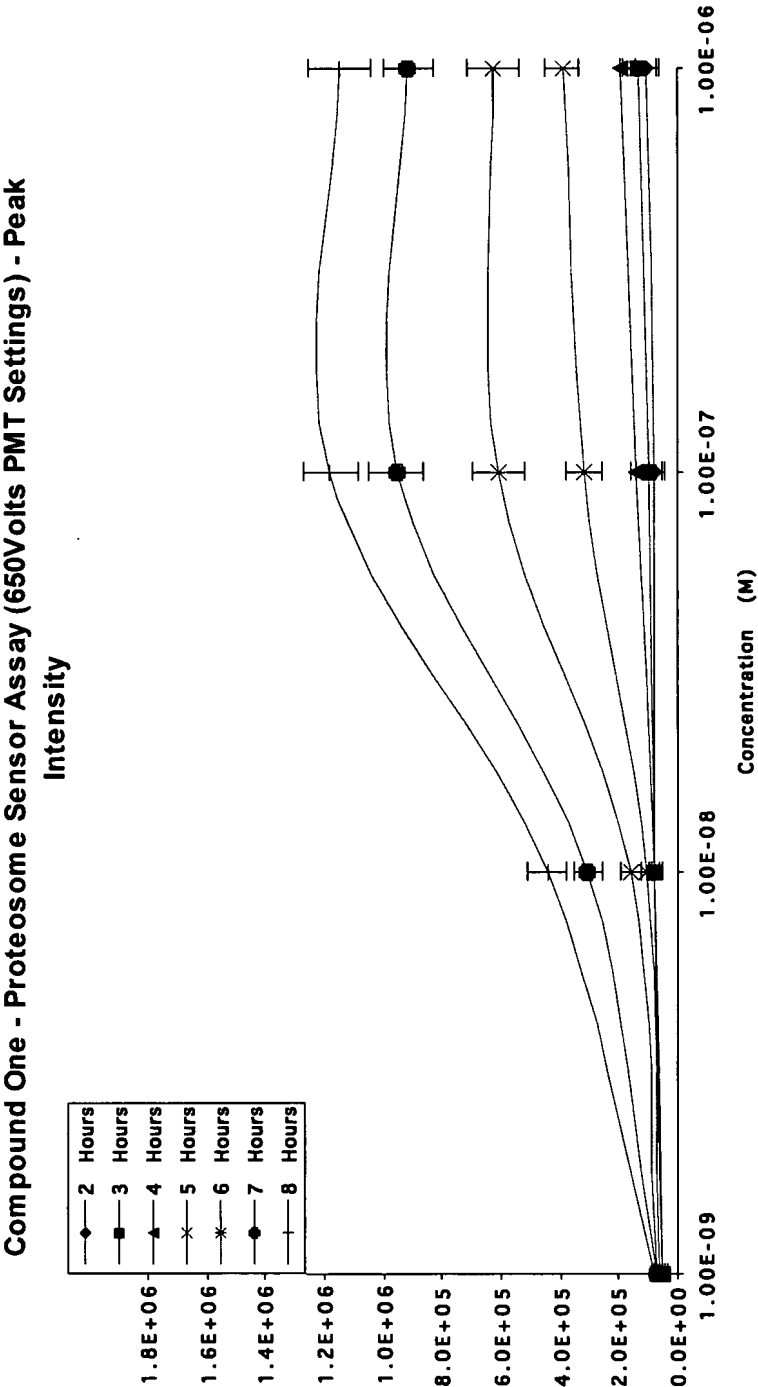
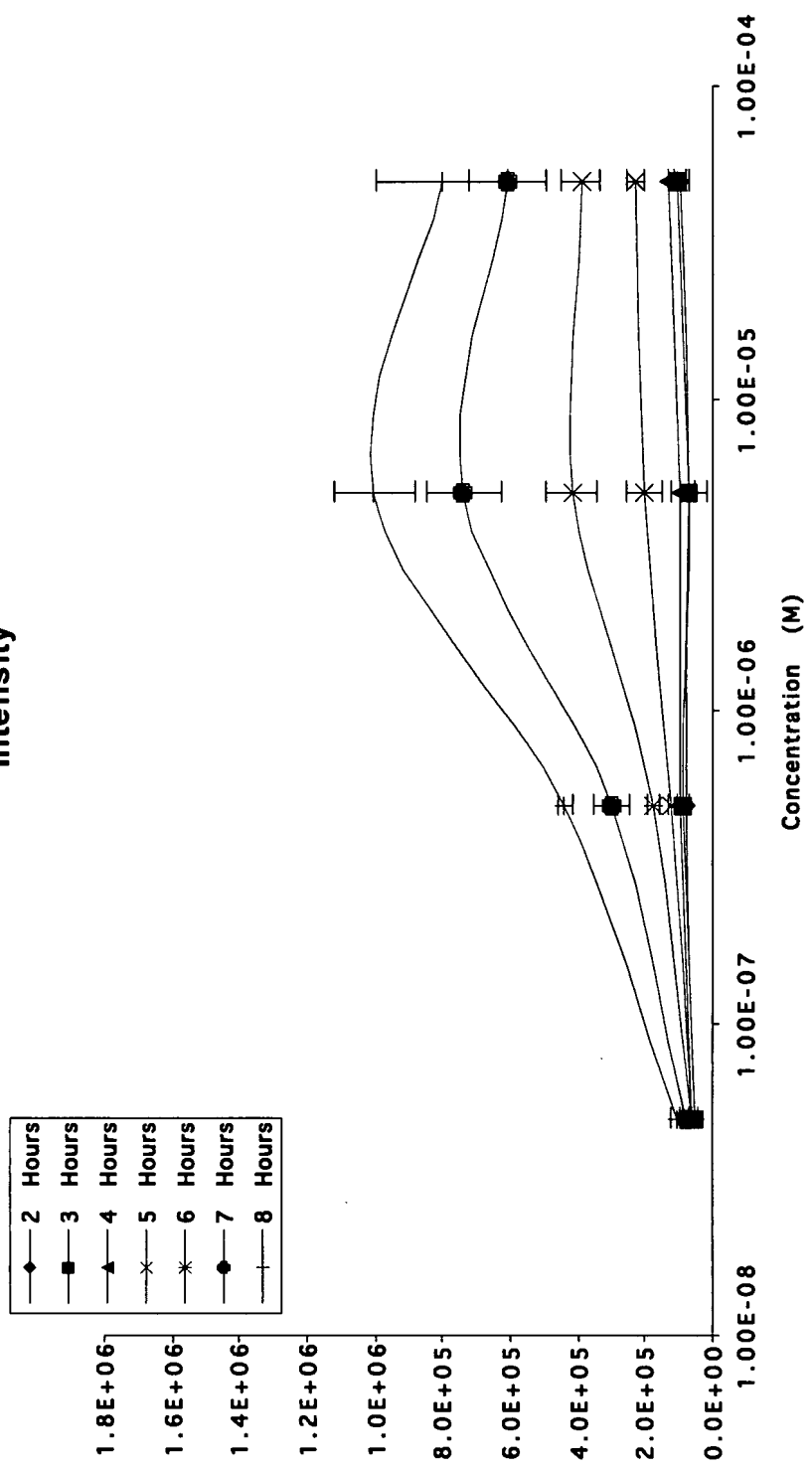


FIG. 5A



Dose response curve obtained with the stable clone and Acumen explorer machine. Compound 1=Epoxomycin

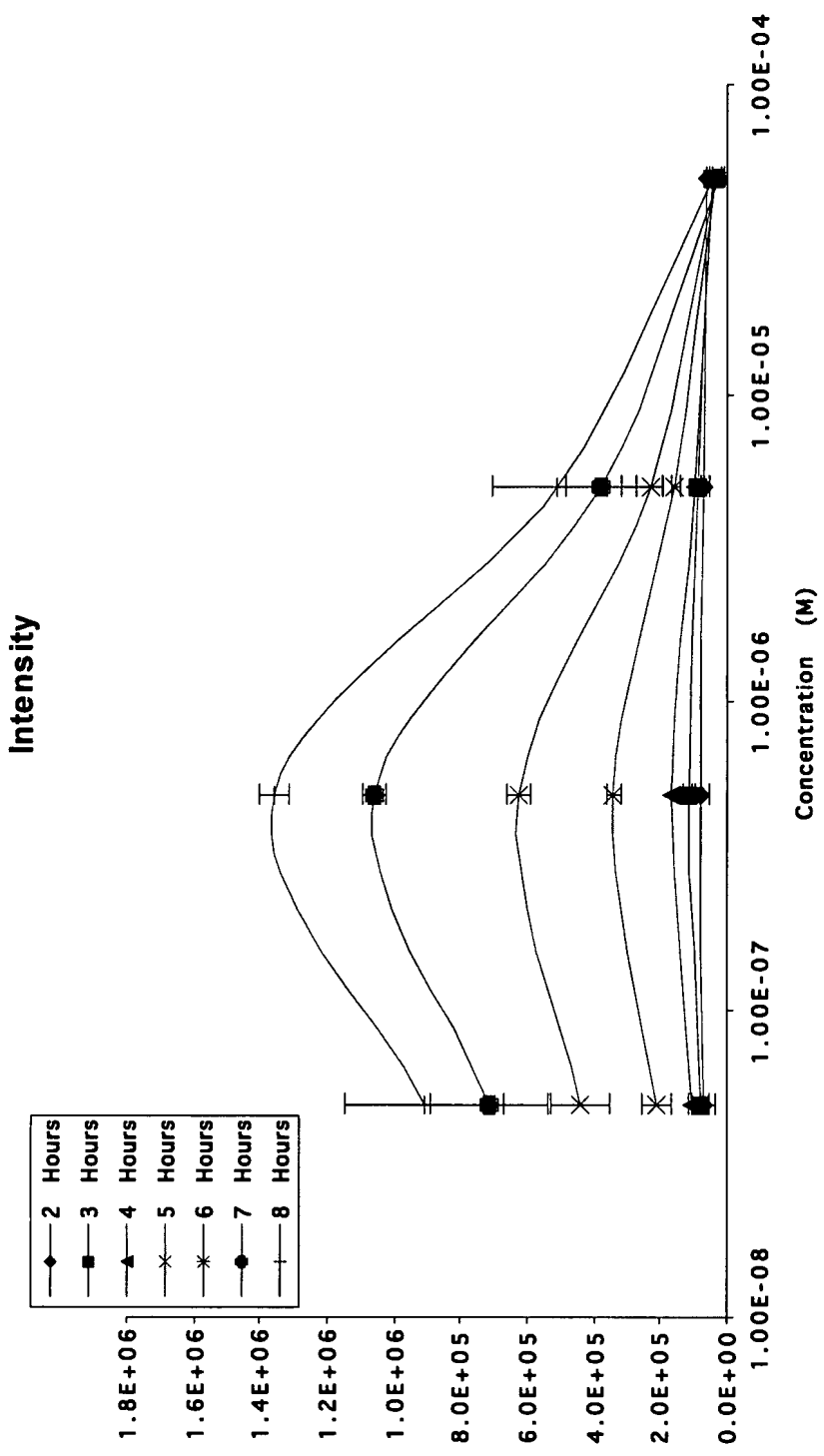
FIG. 5B  
Compound Two - Proteosome Sensor Assay (650Volts PMT Settings) - Peak Intensity



Dose response curve obtained with the stable clone and Acumen explorer machine. Compound 2=Lactacystin

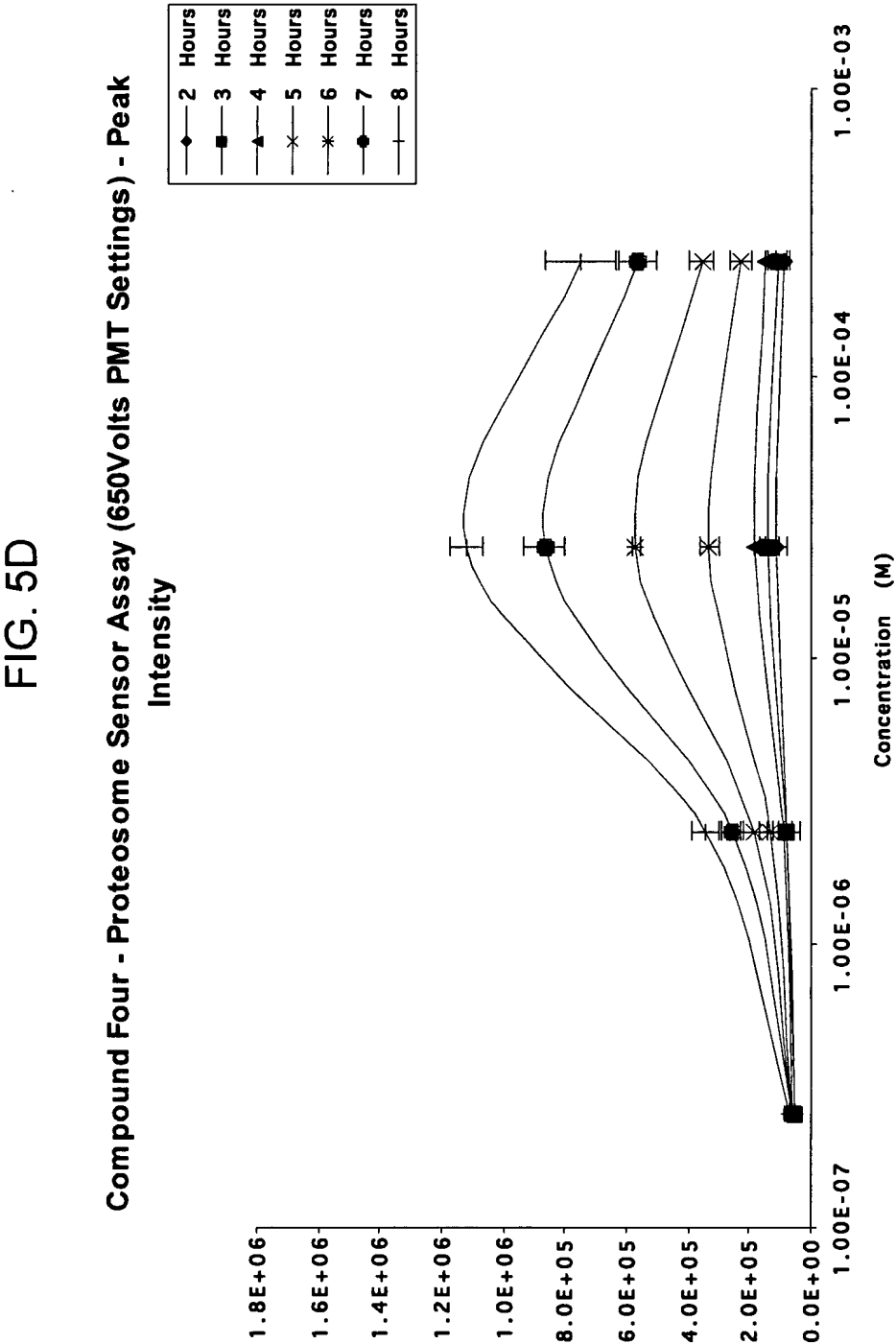
FIG. 5C

Compound Three - Proteosome Sensor Assay (650Volts PMT Settings) - Peak



Dose response curve obtained with the stable clone and Acumen

explorer machine. Compound 3=ZLLH



Dose response curve obtained with the stable clone and Acumen explorer machine. Compound 4=ALLN.